16 2000 0 1 1 1 1 1 1 1 0 7

FIG. 3

Mixing from a master repeater a locally generated modulated MODEM signal of a prescribed level with a RF signal and transmitting the mixed signal through an optical cable

Detecting at a slave repeater a modulated MODEM signal level from the mixed signal transmitted by the master repeater

Comparing, at the slave repeater, the detected modulated MODEM signal level with a reference level and obtaining a difference between the levels, wherein the reference level is the prescribed level unless the master repeater transmits a control signal of a base station

Adjusting a gain of an amplifier for the RF signal in the slave repeater by using the obtained difference to calculate the gain adjustment.



FIG. 4

Transmitting receiving from a base station a first RF signal

Amplifying the first RF signal by a constant level through an amplifier of a master repeater

Mixing a locally generated first modulated MODEM signal of a predetermined prescribed level with the first amplified RF signal and transmitting the mixed signal through an optical cable to a slave repeater

Receiving and separating the mixed signal into a second modulated MODEM signal and a second RF signal, and detecting a modulated MODEM signal level from the second modulated MODEM signal

Comparing, at the slave repeater, the detected modulated MODEM signal level with a reference level and obtaining a difference between the levels, wherein the reference level is the predetermined prescribed level unless the master repeater transmits a control signal of the base station

Controlling a gain of an amplifier for the RF signal in the slave repeater based upon said obtained difference

Amplifying the second RF signal according to the controlled gain and transmitting the second amplified RF signal to terminal

Serial No. 09/469,308 Amdt. dated <u>October 16, 2003</u> Reply to Office Action of <u>July 16, 2003</u>

Amendments to the Drawings:

The attached drawings includes new Figures 3 and 4. The figures depict that which is disclosed in the specification. No new matter has been added.

Attachment: New Figures 3 & 4